

ABSTRACT

An apparatus and accompanying method for controlling a fuel cell power system having a fuel cell stack with a connected energy storage medium. A voltage monitoring circuit is connected to the individual fuel cells forming a fuel cell stack. A regulating circuit receives signals from the voltage monitoring circuit and outputs a control signal to a DC-DC converter connected between the fuel cell stack and an output bus and energy storage medium. The regulating circuit controls the DC-DC converter voltage output to a maximum power that the fuel cell stack can provide.